

1645

1600 14  
10/29/2001

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date:

Edited by:

Verified by:

Serial Number:

09/545,1991d

ENTERED

(STIC stat)

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was 'wrapped' down to the next line.

Edited a formal error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

Added the mandatory heading and subheadings for 'Current Application Data'.

Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: .....

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NOV 09 2001

Deleted extra, invalid, headings used by an applicant, specifically:

ECI CENTER 1600/2900

Deleted:  non-ASCII 'garbage' at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_

Inserted mandatory headings, specifically: \_\_\_\_\_

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the '(A)Length:' field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

Other:

Seq 16 - altered amino acid nos.

Examiner: The above corrections must be communicated to the applicant in the first Office Action! DO NOT send a copy of this form.

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/545,199D**

DATE: 10/29/2001  
TIME: 17:57:09

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10292001\I545199D.raw

१५

3 <110> APPLICANT: Lowery E., David  
4 Fuller E., Troy  
5 Kennedy J., Michael  
7 <120> TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions  
9 <130> FILE REFERENCE: 28341/6227.1  
11 <140> CURRENT APPLICATION NUMBER: 09/545,199D  
12 <141> CURRENT FILING DATE: 2000-04-06  
14 <150> PRIOR APPLICATION NUMBER: 60/153,453  
15 <151> PRIOR FILING DATE: 1999-09-10  
17 <150> PRIOR APPLICATION NUMBER: 60/128,689  
18 <151> PRIOR FILING DATE: 1999-04-09  
20 <160> NUMBER OF SEQ ID NOS: 169  
22 <170> SOFTWARE: PatentIn Ver. 2.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 1112  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Pasteurella multocida  
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30 <221> NAME/KEY: CDS  
31 <222> LOCATION: (210)..(1001)  
33 <220> FEATURE:  
34 <223> OTHER INFORMATION: atpB  
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38 <222> LOCATION: 1099  
39 <223> OTHER INFORMATION: n = A or T or G or C  
41 <220> FEATURE:  
42 <221> NAME/KEY: misc\_feature  
43 <222> LOCATION: 1104  
44 <223> OTHER INFORMATION: n = A or T or G or C  
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49 acttgctttt aaactgttca attcaatgca ttttattgca ttttttgtt gatattttat 120  
51 aacaatagtt ttaaacaata ttcttccatt ttttataagt aagtacttaa atataaagca 180  
53 ttttcataaaa tatcaataaa ggatttagtt atg gca gca gag ctt aca aca gcg 233  
54 Met Ala Ala Glu Leu Thr Thr Ala  
55 1 5  
59 gga tat att ggg cac cat tta gca ttc ttg aaa aca ggg gat tct ttc 281  
60 Gly Tyr Ile Gly His His Leu Ala Phe Leu Lys Thr Gly Asp Ser Phe  
61 10 15 20  
64 tgg cat gtt cat tta gat acc ctt cta ttt tca att att tca ggt gca 329  
65 Trp His Val His Leu Asp Thr Leu Leu Phe Ser Ile Ile Ser Gly Ala  
66 25 30 35 40  
68 att ttt ctt ttt gtt ttt tca aaa gtt gca aaa aaa gca acg ccg ggt 377  
69 Ile Phe Leu Phe Val Phe Ser Lys Val Ala Lys Lys Ala Thr Pro Gly  
70 45 50 55  
72 gtg cct aqc aaq atq caa tqt ttt qtt qag ata atq qtt qat tqq att 425

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Input Set : A:\PTO.AMC.txt  
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73	Val	Pro	Ser	Lys	Met	Gln	Cys	Phe	Val	Glu	Ile	Met	Val	Asp	Trp	Ile	
74				60				65				70					
76	gat	ggg	atc	gtt	aaa	gaa	aat	tcc	cat	ggt	cct	cgt	cat	gct	gtt	gga	473
77	Asp	Gly	Ile	Val	Lys	Glu	Asn	Phe	His	Gly	Pro	Arg	His	Ala	Val	Gly	
78				75				80			85						
80	cca	tta	gca	tta	act	att	tcc	tgc	tgg	gtt	tcc	att	atg	aat	gct	atc	521
81	Pro	Leu	Ala	Leu	Thr	Ile	Phe	Cys	Trp	Val	Phe	Ile	Met	Asn	Ala	Ile	
82				90				95			100						
84	gat	ttg	atc	cca	gtt	aat	tcc	cta	cct	caa	tta	gcc	cat	tta	ttt	ggt	569
85	Asp	Leu	Ile	Pro	Val	Asp	Phe	Leu	Pro	Gln	Leu	Ala	His	Leu	Phe	Gly	
86	105				110				115			120					
88	att	gaa	tac	tta	aga	gct	gtt	cca	aca	gca	aat	atc	agt	gga	aca	tta	617
89	Ile	Glu	Tyr	Leu	Arg	Ala	Val	Pro	Thr	Ala	Asp	Ile	Ser	Gly	Thr	Leu	
90				125				130			135						
92	ggc	tta	tca	att	gtt	gtc	tcc	tta	att	att	tcc	tat	aca	atc	aaa	665	
93	Gly	Leu	Ser	Ile	Gly	Val	Phe	Phe	Leu	Ile	Ile	Phe	Tyr	Thr	Ile	Lys	
94				140				145			150						
96	tca	aaa	ggt	atg	agt	ggc	ttt	gtt	aaa	gaa	tat	acg	ctt	cat	cct	ttt	713
97	Ser	Lys	Gly	Met	Ser	Gly	Phe	Val	Lys	Glu	Tyr	Thr	Leu	His	Pro	Phe	
98				155				160			165						
100	aat	cat	cct	ttg	tta	att	ccg	gtt	aac	tta	gcg	ctt	gaa	tca	gtc	aca	761
101	Asn	His	Pro	Leu	Leu	Ile	Pro	Val	Asn	Leu	Ala	Leu	Glu	Ser	Val	Thr	
102				170				175			180						
104	tta	tta	gca	aaa	cct	gtt	tct	ttg	gcg	tcc	cgt	ctt	tcc	ggg	aat	atg	809
105	Leu	Leu	Ala	Lys	Pro	Val	Ser	Leu	Ala	Phe	Arg	Leu	Phe	Gly	Asn	Met	
106	185				190				195			200					
108	tat	gca	ggt	gaa	ctt	atc	ttt	att	ctt	att	gca	gtg	atg	tac	atg	gca	857
109	Tyr	Ala	Gly	Glu	Leu	Ile	Phe	Ile	Leu	Ile	Ala	Val	Met	Tyr	Met	Ala	
110				205				210			215						
112	aat	aat	ttt	gca	ctt	aat	tca	atg	ggt	att	tcc	atg	cat	ttg	gct	tgg	905
113	Asn	Asn	Phe	Ala	Leu	Asn	Ser	Met	Gly	Ile	Phe	Met	His	Leu	Ala	Trp	
114				220				225			230						
117	gct	att	tcc	cat	att	ctt	gtg	att	acc	tta	caa	gca	ttt	att	ttt	atg	953
118	Ala	Ile	Phe	His	Ile	Leu	Val	Ile	Thr	Leu	Gln	Ala	Phe	Ile	Phe	Met	
119				235				240			245						
121	atg	ctt	aca	gtg	gtt	tat	ttg	agt	atg	ggt	tat	aac	aaa	gca	gaa	cac	1001
122	Met	Leu	Thr	Val	Val	Tyr	Leu	Ser	Met	Gly	Tyr	Asn	Lys	Ala	Glu	His	
123				250				255			260						
125	w-OK	taattttta	taaaacaaaac	cagaccttgg	gtctaaattt	caatcttag	gagaacatta	1061									
127	tggAACACTG	taatttactac	aacaatcatc	gcatctgnaa	ttnttcctgc	t		1112									
130	<210>	SEQ ID NO:	2														
131	<211>	LENGTH:	264														
132	<212>	TYPE:	PRT														
133	<213>	ORGANISM:	Pasteurella multocida														
135	<400>	SEQUENCE:	2														
136	Met	Ala	Ala	Glu	Leu	Thr	Thr	Ala	Gly	Tyr	Ile	Gly	His	His	Leu	Ala	
137				1				5			10			15			
139	Phe	Leu	Lys	Thr	Gly	Asp	Ser	Phe	Trp	His	Val	His	Leu	Asp	Thr	Leu	
140					20				25			30					

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/545,199D

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Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10292001\I545199D.raw

142 Leu Phe Ser Ile Ile Ser Gly Ala Ile Phe Leu Phe Val Phe Ser Lys  
143 35 40 45  
145 Val Ala Lys Lys Ala Thr Pro Gly Val Pro Ser Lys Met Gln Cys Phe  
146 50 55 60  
148 Val Glu Ile Met Val Asp Trp Ile Asp Gly Ile Val Lys Glu Asn Phe  
149 65 70 75 80  
151 His Gly Pro Arg His Ala Val Gly Pro Leu Ala Leu Thr Ile Phe Cys  
152 85 90 95  
154 Trp Val Phe Ile Met Asn Ala Ile Asp Leu Ile Pro Val Asp Phe Leu  
155 100 105 110  
157 Pro Gln Leu Ala His Leu Phe Gly Ile Glu Tyr Leu Arg Ala Val Pro  
158 115 120 125  
160 Thr Ala Asp Ile Ser Gly Thr Leu Gly Leu Ser Ile Gly Val Phe Phe  
161 130 135 140  
163 Leu Ile Ile Phe Tyr Thr Ile Lys Ser Lys Gly Met Ser Gly Phe Val  
164 145 150 155 160  
166 Lys Glu Tyr Thr Leu His Pro Phe Asn His Pro Leu Leu Ile Pro Val  
167 165 170 175  
169 Asn Leu Ala Leu Glu Ser Val Thr Leu Leu Ala Lys Pro Val Ser Leu  
170 180 185 190  
172 Ala Phe Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu Leu Ile Phe Ile  
173 195 200 205  
175 Leu Ile Ala Val Met Tyr Met Ala Asn Asn Phe Ala Leu Asn Ser Met  
176 210 215 220  
178 Gly Ile Phe Met His Leu Ala Trp Ala Ile Phe His Ile Leu Val Ile  
179 225 230 235 240  
181 Thr Leu Gln Ala Phe Ile Phe Met Met Leu Thr Val Val Tyr Leu Ser  
182 245 250 255  
184 Met Gly Tyr Asn Lys Ala Glu His  
185 260  
188 <210> SEQ ID NO: 3  
189 <211> LENGTH: 1972  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Pasteurella multocida  
193 <220> FEATURE:  
194 <221> NAME/KEY: CDS  
195 <222> LOCATION: (364)..(1230)  
197 <220> FEATURE:  
198 <223> OTHER INFORMATION: atpG  
200 <400> SEQUENCE: 3  
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203 acatggtcaa aaagtaactg aattattgaa acaaaaccaa tactctccgt tatctgttagc 120  
205 acaacaaggca tttagtttat ttgcagtaga gtttggttac tttagaagaag tggacttaga 180  
207 tcgtatttgtt tcatttgaat cagcaccttt agagtatgct aaccataact atgctgattt 240  
209 tatgcgtgag ttaacccaat ctggcaatta caatgatgaa attaaagagt cattaaaagg 300  
211 cattttggat agcttcaaag caaacagtgc gtggtaagtt aacactttaa atggagagac 360  
213 aaa atg gca ggt gct aaa gag ata aga acc aaa atc gcg agt gta aaa 408  
214 Met Ala Gly Ala Lys Glu Ile Arg Thr Lys Ile Ala Ser Val Lys  
215 1 5 10 15

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/545,199D

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Input Set : A:\PTO.AMC.txt  
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217	agt aca caa aaa att act aaa gcg atg gaa atg gtt gct gcc tcg aaa	456
218	Ser Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys	
219	20 25 30	
221	atg cgt aaa acg caa gaa cgc atg tct tct tca cgc cct tat tca gaa	504
222	Met Arg Lys Thr Gln Glu Arg Met Ser Ser Ser Arg Pro Tyr Ser Glu	
223	35 40 45	
225	aca ata cgt aac gtg att agc cac gtt tcc aaa gca acg att ggt tac	552
226	Thr Ile Arg Asn Val Ile Ser His Val Ser Lys Ala Thr Ile Gly Tyr	
227	50 55 60	
229	aag cat cca ttt tta gtg gat cgc gaa gta aaa aaa gtg ggc atg att	600
230	Lys His Pro Phe Leu Val Asp Arg Glu Val Lys Lys Val Gly Met Ile	
231	65 70 75	
233	gtt gtg tcc aca gat cgt ggt ctt tgt ggt ggc tta aac gtg aac ttg	648
234	Val Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Val Asn Leu	
235	80 85 90 95	
237	ttt aaa act gta tta aat gaa atg aaa gaa tgg aaa gaa aaa gat gtt	696
238	Phe Lys Thr Val Leu Asn Glu Met Lys Glu Trp Lys Glu Lys Asp Val	
239	100 105 110	
241	tcc gtt caa ttg agt tta atc ggt tct aaa tct atc aac ttt ttc caa	744
242	Ser Val Gln Leu Ser Leu Ile Gly Ser Lys Ser Ile Asn Phe Phe Gln	
243	115 120 125	
245	tct ttg gga att aaa att tta acc caa gat tca ggt att ggt gat act	792
246	Ser Leu Gly Ile Lys Ile Leu Thr Gln Asp Ser Gly Ile Gly Asp Thr	
247	130 135 140	
249	ccc tct gtt gag cag tta att ggt tca gtc aat tct atg att gat gct	840
250	Pro Ser Val Glu Gln Leu Ile Gly Ser Val Asn Ser Met Ile Asp Ala	
251	145 150 155	
253	tat aaa aaa ggg gaa gta gat gtt gtg tat tta gtt tat aac aaa ttt	888
254	Tyr Lys Lys Gly Glu Val Asp Val Val Tyr Leu Val Tyr Asn Lys Phe	
255	160 165 170 175	
257	att aac acg atg tcg caa aag cca gta ttg gaa aaa tta att cca tta	936
258	Ile Asn Thr Met Ser Gln Lys Pro Val Leu Glu Lys Leu Ile Pro Leu	
259	180 185 190	
261	cca gaa tta gat aat gat gaa tta ggc gaa aga aaa caa gtt tgg gat	984
262	Pro Glu Leu Asp Asn Asp Glu Leu Gly Glu Arg Lys Gln Val Trp Asp	
263	195 200 205	
265	tat att tac gaa cct gat gcg aaa gta tta tta gat aat tta ttg gtt	1032
266	Tyr Ile Tyr Glu Pro Asp Ala Lys Val Leu Leu Asp Asn Leu Leu Val	
267	210 215 220	
269	cgt tat tta gaa tct cag gtt tat caa gca gca gtt gaa aac ctt gct	1080
270	Arg Tyr Leu Glu Ser Gln Val Tyr Gln Ala Ala Val Glu Asn Leu Ala	
271	225 230 235	
273	tct gag caa gcc gct cga atg gtc gcc atg aaa gca gca aca gat aac	1128
274	Ser Glu Gln Ala Ala Arg Met Val Ala Met Lys Ala Ala Thr Asp Asn	
275	240 245 250 255	
277	gca ggt aac tta att aat gag tta cag tta gtc tat aac aaa gct cgt	1176
278	Ala Gly Asn Leu Ile Asn Glu Leu Gln Leu Val Tyr Asn Lys Ala Arg	
279	260 265 270	
281	caa gca agt att aca aat gaa tta aat gaa att gtt gcc ggt gca gca	1224

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,199D

DATE: 10/29/2001

TIME: 17:57:09

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10292001\I545199D.raw

282 Gln Ala Ser Ile Thr Asn Glu Leu Asn Glu Ile Val Ala Gly Ala Ala  
 283                   275                   280                   285  
 285 gca att taacaaatag aggatcggt a~~tgg~~caactg gaaaaattgt acaaatcatc   1280  
 286 Ala Ile  
 288 ggtgcggta ttgacgttga atccccacaa gatgcagtac caaaaagtata tgatgcctt 1340  
 290 aatgttggaa caggtagt acttgaagtt caacaacaat taggtggtgg ttttagttcgc 1400  
 292 tgtatcgcaa tgggatcatc tggatggatta aaacgcggta taagcgtaac aaatacgaat 1460  
 294 aacccaattt ctgttcagg ggaacgaaa acattggtc gtatcatgaa cgtattgggt 1520  
 296 gaaccaatcg atgagcaagg tggaaatcggt gcagaagaga attggcttat tcaccgtgcg 1580  
 298 ccaccaagtt atgaagaaca atctaacagt actgaacttt tagaaacggg aattaaagtt 1640  
 300 atcgacttag tttgtccgtt tgcgaaagg ggtaaagtag gtttattcgg tggtgccgggt 1700  
 302 gtcggtaaaa ccgtcaatat gatggaaatta atccgtaa tgcgttgcatttgcgc 1760  
 304 tactctgtct ttgcgggggt aggtgagcgt acgcgtgaag gtaacgactt ctatcatgag 1820  
 306 atgaaagact ctaacgtatt agataaaagtg tctcttgtt atggtaaat gaacgagcc 1880  
 308 ccaggttaacc gtttacgtgt ggcatataaca ggcttaacta tggcggaaaa attccgttat 1940  
 310 gaaggtcgtg atgtcttattt cttcggttcat aa                           1972  
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 314 <211> LENGTH: 289  
 315 <212> TYPE: PRT  
 316 <213> ORGANISM: Pasteurella multocida  
 318 <400> SEQUENCE: 4  
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 320     1               5                   10                   15  
 322 Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys Met  
 323       20               25                   30  
 325 Arg Lys Thr Gln Glu Arg Met Ser Ser Ser Arg Pro Tyr Ser Glu Thr  
 326       35               40                   45  
 328 Ile Arg Asn Val Ile Ser His Val Ser Lys Ala Thr Ile Gly Tyr Lys  
 329       50               55                   60  
 331 His Pro Phe Leu Val Asp Arg Glu Val Lys Lys Val Gly Met Ile Val  
 332       65               70                   75                   80  
 334 Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Val Asn Leu Phe  
 335       85               90                   95  
 337 Lys Thr Val Leu Asn Glu Met Lys Glu Trp Lys Glu Lys Asp Val Ser  
 338       100              105                   110  
 340 Val Gln Leu Ser Leu Ile Gly Ser Lys Ser Ile Asn Phe Phe Gln Ser  
 341       115              120                   125  
 343 Leu Gly Ile Lys Ile Leu Thr Gln Asp Ser Gly Ile Gly Asp Thr Pro  
 344       130              135                   140  
 346 Ser Val Glu Gln Leu Ile Gly Ser Val Asn Ser Met Ile Asp Ala Tyr  
 347       145              150                   155                   160  
 349 Lys Lys Gly Glu Val Asp Val Val Tyr Leu Val Tyr Asn Lys Phe Ile  
 350       165              170                   175  
 352 Asn Thr Met Ser Gln Lys Pro Val Leu Glu Lys Leu Ile Pro Leu Pro  
 353       180              185                   190  
 355 Glu Leu Asp Asn Asp Glu Leu Gly Glu Arg Lys Gln Val Trp Asp Tyr  
 356       195              200                   205  
 358 Ile Tyr Glu Pro Asp Ala Lys Val Leu Leu Asp Asn Leu Leu Val Arg  
 359       210              215                   220

**Use of n and/or Xaa has been detected in the Sequence Listing.**  
Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/545,199DDATE: 10/29/2001  
TIME: 17:57:10Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10292001\I545199D.raw

L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:3839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:3979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:3982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:3985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:5414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:5524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:5527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:5533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:5536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:5610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37  
L:5726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:5738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:5856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39  
L:6788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:9357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72  
L:11241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90  
L:11243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90  
L:11976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102  
L:11977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102  
L:12304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103